

PODSHIVALENKO, P.D.; BALIKHIN, M.I.; KASHINSKIY, S.V. [deceased];
IVANOV, N.A.; KACHALOV, N.N.; NEMKOV, G.P.; ONUFRIYEV,
I.A.; PERESLEGIN, V.I.; RUMYANTSEV, A.F.; RUSAKOV, A.N.;
SEMENOV, I.Ya.; STOMAKHIN, I.B.; FILIPPOV, V.F.;

[Economics of construction; a textbook] Ekonomika stroitel'stva; uchebnik. Moskva, Politizdat, 1964. 542 p.

(MIRA 18:8)

1. Kommunisticheskaya Partiya Sovetskogo Soyuza. Vysshaya partiynaya shkola.

BALIKHIN, P.

Brushes with carbolite handles. Prom. koop. 14 no.5:15 My '60.
(MIRA 13:12)

1. Glavnyy inzhener Shchetotchno-kistevyazal'noy arteli, Moskva.
(Moscow--Broom and brush industry)

S/598/60/000/004/003/020
D215/D302

AUTHORS: Reznichenko, V.A., Balikhin, V.C. and Karyazin, I.A.

TITLE: The influence of titanium dioxide on the electrical conductivity of slag

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Titan i yego splavy. No. 4. Moscow, 1960. Metallurgiya titana, 24-27

TEXT: Since titanium dioxide and titanium tetrachloride were obtained by high-temperature electrolytic reduction of ilmenite concentrate melts, it is important to know the effect of slag constituents on electrical conductivity in order to avoid a dissipation of electrical energy instead of its conversion into heat. As a first step the influence of TiO_2 was selected for investigation. The method was based on measuring the out-of-balance current in a 4-arm bridge circuit with the furnace-enclosed electrolytic cell and a variable resistance constituting one arm and fixed resistances the other three. The bridge was initially

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The influence of titanium dioxide on the D215/D302

balanced at a certain resistance value close to that expected, so that when unbalance arose current was fed across the bridge diagonal, proportionally to the deviation. This was recorded by a d.c. microammeter of the M 95 (M95) type, included in the diagonal together with a rectifier. Calibration was effected by using standard resistances in place of the cell; the limits of accuracy were 0.0001 ohm. Current supply was from a.c. mains at normal frequency. The measuring cell consisted on a eccentrically bored molybdenum crucible of 24 mm internal diameter forming one electrode, and a 3 mm diameter rod electrode which was immersed in the slag to a depth of 10 mm. The cell constant was determined using a standard 0.1N KCl solution, the circuit resistance by shorting the electrodes. Synthetic slags based on $TiO_2-SiO_2-Al_2O_3-FeO-MgO$ with Al_2O_3 and MgO constant at 2% each and $FeO/SiO_2 = 0.6$ were investigated.

These were made from chemically pure oxides, carefully mixed and briquetted. The furnace was of the Tamman type and the atmosphere oxygen-free nitrogen. The results are shown graphically. The anomalously

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The influence of titanium ...

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high conductivity of high-titanate slags in comparison with silicates and the weak temperature dependence and high conductivity even in the solid state suggested that titanium dioxide conferred both ionic and electronic conductivity. There are 2 figures and 1 table.

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REZNICHENKO, V.A.; BALIKHIN, V.S.; KARYAZIN, I.A.

Effect of titanium dioxide on the electric conductivity of slags.
Titan i ego splavy no.4:24-27 '60. (MIRA 13:11)
(Titanium oxide) (Slag--Electric properties)

S/137/62/000/002/003/14
A006/A101

AUTHORS: Balikhin, V. S., Reznichenko, V. A.

TITLE: Electric conductivity of melts of the ferrous oxide-titanium dioxide system

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 11-12, abstract 2A55 ("Izv. AN SSSR, Otd. tekhn. n.", 1961, no. 4, 24-28)

TEXT: Electric conductivity of slags was measured by the method of a non-equilibrium bridge at up to 1,900°C. The samples were prepared by mixing and briquetting of chemically pure components. After completed experiments samples were pumped-off for mineralogical and X-ray analyses. It was established that Ti-oxides have high (for oxides) electronic conductivity. Bends corresponding to ferrous ortho- and metatitanate, were observed on isotherms showing changes in the electric conductivity of slags in the FeO-TiO₂ system. The high electronic conductivity of Ti-dioxide under weakly reducing conditions is apparently caused by the appearance of defects in the rutile lattice on account of the partial oxygen loss. The high electronic conductivity of the slags investigated in the FeO-TiO₂-Ti₂O₃ system, leads to the assumption that the solid solutions

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Electric conductivity of melts ...

S/137/62/000/002/003/144
A006/A101

on Ti_3O_5 and Ti_2O_3 lattice base (anosovite and tagirovite) possess also high conductivity. These minerals are the basic phases of industrial titanium slags and assure their high conductivity.

T. Kolesnikova

[Abstracter's note: Complete translation]

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S/137/62/000/007/004/072
A052/A1C1AUTHORS: Balikhin, V. S., Reznichenko, V. A.

TITLE: Electric conductivity of titanium slags

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 7, 1962, 10, abstract 7A54
(In collection: "Titan i yego splayv". Moscow, AN SSSR, no. 5, 1961, 95 - 101)

TEXT: Electric conductivity κ of high-titanium slags (80 - 90% TiO_2) is reduced 2 - 3 times by adding limestone or dolomite to the charge with the purpose of obtaining slag with 4 - 6% CaO which creates conditions for a smoother electro-smelting process. A further increase of fluxing components in the slag, although it secures more favorable conditions for smelting concentrates, makes the slag considerably poorer in respect of TiO_2 and deteriorates its quality. The presence of FeO in slag has no considerable effect on its κ . A further increase of FeO up to 15% causes a gradual decrease of κ owing to TiO_2 impoverishment of slag, which is a decisive factor affecting κ of slag. Contrary to notions that existed previously, it has been established that an increase of the degree of overreduc-

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Electric conductivity of titanium slags

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tion of Ti_2O_3/TiO_2 slag from 0 to 0.8 changes its κ insignificantly. A decrease of the resistance of the smelt at the end of the electrosmelting and the change of the furnace to the arc process are connected obviously with a higher Ti. concentration in slag and not with the emergence of lower Ti oxides. As an explanation of unusually high κ for slags, which TiO_2 imparts to them, the assumption can be made that at smelting in a reducing atmosphere TiO_2 , like FeO and MnO , has an electronic conduction.

Authors' summary

[Abstracter's note: Complete translation]

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BALIKHIN, V.S.; REZNICHENKO, V.A.

Studying the electroconductivity of titanium slags. Titan i
ego splavy no.8:41-48 '62. (MIRA 16:1)
(Titanium oxide--Electric properties)
(Slag--Electric properties)

S/180/62/000/002/003/018
E091/E135

AUTHORS: Balikhin, V.S., and Reznichenko, V.A. (Moscow)

TITLE: Electrochemical separation of titanium-aluminum alloys

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Metallurgiya i toplivo. no.2, 1962, 49-55

TEXT: In order to study the possibility of separating Ti and Al by means of electrolytic refining, the authors measured the potentials of Ti and Al electrodes, functioning both as cathodes and anodes. NaCl was fused in a graphite crucible placed in a stainless steel sleeve, and the electrodes were immersed in it. One electrode was of steel, and was lowered directly into the melt, while the other, upon which measurements were made, was enclosed in a quartz test tube to effect maximum separation between the electrolyte in its vicinity and the body of the melt. The test tube had an opening of 2 mm diameter for the passage of current. The Ti electrode consisted of a

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Electrochemical separation of ...

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cylinder, 6 x 50 mm. It was attached to a steel wire and lowered into the melt to a depth of 10 mm below the surface. The Al electrode consisted of a graphite rod suspended in a quartz test tube of 16 mm diameter, containing molten aluminium. The working surface of each of the electrodes was 2 cm². Prior to measuring the potentials, the electrode under investigation was anodically polarised for a period of time necessary to ensure the required Ti or Al ion concentration in the melt of the cell. These concentrations were checked before each test by means of calorimetric analysis. Electrode potentials were first measured under conditions of anodic polarisation, with current densities varying from 0 to 1 A/cm² and down to zero again. The behaviour during cathode polarisation was subsequently investigated in a similar manner. Each cycle of measurements lasted approximately 5 minutes. For the measurement of electrode potentials, a silver reference electrode was used. To maintain electrical contact between the electrolytes in the cells investigated and the reference electrode, without allowing them to mix, the latter was jacketted

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Electrochemical separation of ... S/180/62/000/002/003/018
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by two test tubes possessing openings of 1 mm diameter covered with asbestos diaphragms. The outermost of these was made of graphite, in order to protect the inner quartz tube from attack by metallic sodium which was evolved at the cathode, and also to create an additional obstacle to the mixing of the electrolytes. Thus the authors measured the e.m.f. of the cell Ag^+/NaCl , AgCl (5%)/ NaCl/NaCl , $\text{MeCl}_x/\text{Me}^-$ at 870°C , under conditions both of electrolysis with various current densities, and without polarising action (i.e. under conditions approaching those of equilibrium). A low frequency electron oscillograph was used as the measuring instrument. The solubility of AlCl_3 in molten chlorides was studied by an electrolytic method, using the same apparatus as that used for the determination of potentials but without reference electrode. Aluminium, placed at the bottom of a double-walled quartz test tube, was anodically dissolved in the molten salt, using a current of 2 A. Molten lead was used as the cathode. The current was supplied through graphite rods. The anode and cathode compartments communicated through an opening of 3 mm diameter made in the walls of the test tubes.

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Electrochemical separation of ...

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EO91/E135

Argon was passed into the test tube containing the Al in order to provide an inert atmosphere and to remove AlCl_3 vapours. After definite periods of time, samples of the electrolyte were withdrawn for determination of their Al content. Synthetic alloys were used for the study of the separation of Ti and Al. Melting was carried out in an arc furnace with a tungsten electrode, in an atmosphere of argon at 0.5 atmospheres pressure. Binary alloys, containing between 5 and 60% Al at intervals of 5%, were electrolytically refined. Electrolysis was carried out at 670 °C, using a current of 8 A (cathode C.D. = 1.3 A/cm², anode C.D. = 0.1 A/cm²) for one hour. It was found that Ti and Al cannot be effectively separated by means of electrolytic refining in molten sodium chloride baths. However, the solubility of AlCl_3 in chlorides which do not form complex compounds with it is only a few hundredths of 1%, and experience with the refining of Ti-Al alloys has shown that electrolytic separation of these metals can be based on the low solubility of AlCl_3 in a melt of CaCl_2 . There are 3 figures and 4 tables.

Card 4/4 SUBMITTED: December 14, 1961

BALIKHIN, V.S.; REZNICHENKO, V.A.

Titanium and aluminum electrode potentials in fused sodium chloride.
Titan i ego splavy no.9:220-224 '63. (MIRA 16:9)
(Titanium chloride) (Aluminum chloride)
(Separation (Technology))

BALIKHIN, V.S.; REZNICHENKO, V.A.

Solubility of aluminum and titanium chloride in fused chlorides.
Titan i ego spravy no.9:225-229 '63. (MIRA 16:9)
(Separation (Technology)) (Solubility)
(Chlorides)

BALIKHIN, V.S.; REZNICHENKO, V.A.

Electrolytic separation of binary alloys in the system Ti - Al.
Titan i ego splavy no.9:230-235 '63. (MIRA 16:9)
(Titanium-aluminum alloys)
(Separation (Technology))

ACCESSION NR: AP4019821

S/0279/64/000/001/0191/0192

AUTHOR: Balikhin, V. S.

TITLE: Second conference on physical chemistry and electrochemistry of fused salts and slags

SOURCE: AN SSSR. Izv. Metallurgiya i gornoye delo, no. 1, 1964, 191-192

TOPIC TAGS: physical chemistry, electrochemistry, electrolysis, salt, electrolyte, ionic melt, slag

ABSTRACT: The Second Conference on physical chemistry and electrochemistry of molten salts and slags took place in Kiev, October 15-18, 1963. It was organized by the Institut obshchey i neorganicheskoy khimii AN USSR (Institute of General and Inorganic Chemistry, AN Ukrainian SSR). Over 100 papers were presented on electrochemical kinetics, physicochemical properties of fused salts, slags, and electrolysis. At the plenary session the speakers included A. I. Belyayev, "An experimental study of P. P. Fedot'yev and V. P. Il'inskiy on the electrometallurgy of aluminum," Yu. K. Dalimarskiy on "The kinetics of electrode processes and the

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ACCESSION NR: AP4019821

polarography of thermodynamics in ionic melts," B. F. Markov on "The structure and physicochemical properties of ionic melts of salts," Yu. V. Baymakov on "The crystallization of metals on the cathode," and N. K. Voskresenskaya on "The thermodynamic basis of the Kablukov Law." The attention of the Conference was directed along two lines: 1) the study of the nature of ionic melts; 2) investigations dealing with the electrode processes in fused salts. A report of E. A. Ukshe and N. G. Bukun dealt with "An investigation of the structure of molten salts by the method of physical modeling." Their models were wooden disks floating on water, representing the ions and approximating the distribution of sodium and potassium chloride. B. F. Markov and V. D. Prisyazhnyy reported on "Physico-chemical characteristics of certain mutually soluble fused salts." I. N. Sheyko and V. T. Barchuk submitted a paper on "The behavior of zirconium dichloride in molten salts," showing that above 550C zirconium dichloride yields zirconium tetrachloride and metallic zirconium. Yu. V. Baymakov presented a report on electrocrystallization of silver from fused electrolytes, and A. N. Baraboshkin reported on the electrocrystallization of copper. N. T. Krasil'nikov discussed new investigations in the field of anode and cathode processes in his paper on "Electrode processes in electrolysis of niobium," while O. V. Skiba reported on "Electrode processes in chloride fusions containing uranium." The next conference will

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ACCESSION NR: AP4019821

be held in 1966 in Leningrad.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 31Mar64

ENCL: 00

SUB CODE: MM

NO REF SOV: 000

OTHER: 000

Cord 3/3

BALIKHINA, G. S.

Action of gaseous chlorine on sulfides, oxides and sulfates of lead, zinc, copper, silver and iron in relation to temperature. D. M. Chishikov and G. S. Balikhina. *Tsvetnaya Metall.* 1935, No. 4, 50-57; cf. C. A. 30, 11891. The effect of gaseous Cl on PbS, ZnS, CuS, Ag₂S, FeS, PbO, ZnO, CuO, PbSO₄, ZnSO₄, and CuSO₄ was studied at temps. from 100° to 800°. Rapid technique is described in detail, and numerous quantitative data are given. Conclusions: The sulfides are the most easily converted into chlorides and the sulfates the least. The chlorination of sulfides and oxides is easily completed at temps. up to 700°, while the chlorination of sulfates below this temp. proceeds only very slowly. As a rule the chlorination of sulfides begins at lower temps. than that of oxides and sulfates. With increasing temps. the velocities of chlorination of sulfides and oxides tend to equalize.

B. N. Danilov

BALIKHINA, G.S.		PROCESSING AND PROPERTIES INDEX	
<i>Ca</i> Sulfate formation from the action of chlorine on mixtures of cupric sulfate, cupric oxide, cuprous sulfide and ferric oxide. B. M. Chishikov and G. S. Balikhina, <i>J. Chem. Ind. (Moscow)</i> 12, 1038 41 (1955). When Cl₂ reacts with a mixt. of CuS and Cu₂O, a small amt. of CuSO₄ is formed. Addn. of Fe₂O₃ to the mixt. greatly increases the amt. of CuSO₄, especially at higher temps. Addn. of CuSO₄ (contg. H₂O) of crystn. decreases the formation of more CuSO₄ at high temp. Anhyd. CuSO₄ has little effect. CuSO₄ and Cu₂S react to give S, which also oxidizes Cu₂O, but not as easily as Cu₂S does. When a mixt. of CuSO₄ (H₂O), Cu₂O, Cu₂S and Fe₂O₃, approximating the compn. of Cu pyrites slag, is chlorinated, the amt. of CuSO₄ formed rises to 85% of the possible amt. H. M. Leicester		18	
450-55 A METALLURGICAL LITERATURE CLASSIFICATION			

BALIKHINA, G. S.																										9																									
The purification of solutions from iron in the hydro-																																																			
metallurgy of zinc. D. M. Chirchikov and G. S. Balik-																																																			
hina. <i>Zhurnal Metal.</i> 1936, No. 9, 67-70. Air and O_2																																																			
are not satisfactory for oxidizing Fe to the trivalent state																																																			
before pptg. it from the electrolytic soln. Much in acid																																																			
solns. or in neutral solns. contg. ZnO is best for this pur-																																																			
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BALIKHINA, G.S.
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The oxidation of lead and zinc sulfides by pure oxygen.
1). M. Chizhikov and G. S. Balikhina. *Izv. Akad. Nauk SSSR, Metal.*
1937, No. 4, 72-4. -- Oxidation of powd. galena and pptd.
ZnS begins strongly only at 500° and at 800° is nearly
complete. ZnS is more completely oxidized than PbS.
H. M. Leicester

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

1800-1899 1900-1949 1950-1959 1960-1969 1970-1979 1980-1989 1990-1999 2000-2009 2010-2019 2020-2029 2030-2039 2040-2049 2050-2059 2060-2069 2070-2079 2080-2089 2090-2099 2100-2109 2110-2119 2120-2129 2130-2139 2140-2149 2150-2159 2160-2169 2170-2179 2180-2189 2190-2199 2200-2209 2210-2219 2220-2229 2230-2239 2240-2249 2250-2259 2260-2269 2270-2279 2280-2289 2290-2299 2300-2309 2310-2319 2320-2329 2330-2339 2340-2349 2350-2359 2360-2369 2370-2379 2380-2389 2390-2399 2400-2409 2410-2419 2420-2429 2430-2439 2440-2449 2450-2459 2460-2469 2470-2479 2480-2489 2490-2499 2500-2509 2510-2519 2520-2529 2530-2539 2540-2549 2550-2559 2560-2569 2570-2579 2580-2589 2590-2599 2600-2609 2610-2619 2620-2629 2630-2639 2640-2649 2650-2659 2660-2669 2670-2679 2680-2689 2690-2699 2700-2709 2710-2719 2720-2729 2730-2739 2740-2749 2750-2759 2760-2769 2770-2779 2780-2789 2790-2799 2800-2809 2810-2819 2820-2829 2830-2839 2840-2849 2850-2859 2860-2869 2870-2879 2880-2889 2890-2899 2900-2909 2910-2919 2920-2929 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9930-9939 9940-9949 9950-9959 9960-9969 9970-9979 9980-9989 9990-9999

CA

BALIKHINA, G. S.

Chlorination of tin concentrates. D. M. Chizhikov and G. S. Balikhina. *Envsyge Metall.* No. 8, 68-75 (1967).—The authors' expts. showed that Sn can be re-

covered from ore by chlorination, and the following advantages of this method are claimed: (1) Concentrates as low in Sn as 25-30% can be treated while pyrometallurgical processes require 50 to 60% Sn concentrates. This means that the use of this process will result in increased recovery of Sn from ore, because the losses in tailings are the higher the richer the concentrate. (2) Metal free from impurities can be obtained whereas in pyrometallurgical processes the tin is contaminated by other metallic elements and requires further refining operations. The authors experimented with chlorination of oxides and sulfides of Sn, Pb, Zn, Cu, Fe, Ag and As at temps. from 150° to 700°. These metals, with the exception of Fe, are converted into chlorides at 700° to the extent of 70 to 100%, while SnO₂ is little affected. At 700° the chlorides Zn and As volatilize, and the chlorides of Pb, Fe, Cu and Ag can be easily leached out. Natural SnO₂ (cassiterite) does not react with Cl₂. However, in presence of C, CO, or oxides of Fe, chlorination takes place. Samples of cassiterite contg. 97.4% SnO₂ and 1.79% Fe₂O₃ were chlorinated for 2 hrs. in the presence of C and (or) CO at 400°, 600° and 800°. At 800° in presence of CO, 10.3% of Sn was converted into chloride, and in presence of solid C, 7.1%. When both C and CO were present 84% of the Sn was chlorinated. With Fe₂O₃ present (in the ratio of 1 part Fe to 3 parts Sn) 5.8% Sn was chlorinated at 800°. The chlorination is still further favored by simultaneous presence of C and Fe₂O₃, or CO and Fe₂O₃ whereby over 100% of Sn is chlorinated. Further expts. on semiconc scale are contemplated.

H. N. Daniloff

ADV. SLA METALLURGICAL LITERATURE CLASSIFICATION

84-75-68-75-22-22

1967-1968

1967-1968

1967-1968

1967-1968

1967-1968

SOBINYAKOVA, N.M.; IVANTSOVA, G.A.; BALIKHINA, S.I.

Extraction of molybdenum from ores in alkali solutions using a
catalyst. Min.syr'e no.9:49-57 '63. (MIRA 17:10)

JANOVSKY, M.; MARTINEK, J.; STANINCOVA, V.; Technicka spoluprace:
BALIKOVA, V.; BOUCKOVA, R.; CERNA, Z.

Water and electrolyte balance in infants on various nutritional
regimen. (On problems of humanized milk). Cesk. pediat. 20 no.9:
759-766 S '65.

1. Ustav pro peci o matku a dite v Praze (reditel doc. dr. J.
Horsky, DrSc.; vedouci pediatrickeho vyzkumu doc. dr. K. Polacek)
a Fyziologicky ustav Ceskoslovenske akademie ved v Praze (reditel
prof. dr. Z. Servit, DrSc.).

BALIKOVA, Z; CERNAKOVA, R.

Therapeutic possibilities in pemphigus vulgaris. Cesk. dermat.
25 no.7-8:254-256 July 1950. (CJML 20:1)

1. Of the Second Skin Clinic in Prague (Head--Prof. K. Hubschmann,
M. D.).

BAIKOVSKIY, B.Ye.

Thesis, antithesis, and character series in the identification of
plants. Bot. zhur. 45 no.11:1640-1644 N '60. (MIRA 13:11)

1. Dendropark "Aleksandriya", g. Belaya TSerkov'.
(Botany--Classification) (Biostatistics)

TIUCRA, A. Dr.; BALIMBERG, E. Dr.; GANEA, D. Dr.; SASS, H., Dr.; BILIU,
Clementina (Chimista)

Cortisone and ACTH in therapy of epidemic hepatitis; personal experience. Med. int., Bucur. 10 no.3:403-411 Mar 58.

1. Lucrare efectuata in Spitalul contagios1 nr. 2, Bucuresti.
(HEPATITIS, INFECTIOUS, therapy
ACTH & cortisone with classical ther.)
(ACTH, ther. use
hepatitis, infect., with classical ther.)
(CORTISONE, ther. use
hepatitis, infect., with classical ther.)

BALIN, A.A.

Automatic radio beacon and buoy for permanent self-contained
stations. Trudy AANII 254:67-68 '63.

(MIRA 17:11)

ACCESSION NR: AR4020758

S/0109/64/000/001/V009/V009

SOURCE: RZh. Geofizika, Abs. 1V58

AUTHOR: Balin, A. A.

TITLE: Automatic radio-beacon buoy for long-term autonomous stations

CITED SOURCE: Tr. Arkt. i Antarkt. n.-i. in-ta, v. 254, 1963, 67-68

TOPIC TAGS: radio beacon buoy, call signal transmitter, position indicator, position transmitter, direction finding, call signal broadcasting equipment

TRANSLATION: A description and circuit diagram are given for the ARBM-1 radio-beacon buoy designed to facilitate the search for autonomous stations. The instrument consists of a one-tube radio transmitter with a power of about 20 W and an operating frequency of 577 Kc (wave of 520 m), mounted inside a buoy (displacement of 200 kg). The transmitter is turned on every 3 min by a special electric timer. The call signal consists of one letter and a long dash for radio direction finding. The instrument can operate for 75 days,

Card 1/2

ACCESSION NR: AR4020758

and its effective radius is 20 miles.

Yu. A.

DATE ACQ: 03Mar64

SUB CODE: SD, AS

ENCL: 00

Cord 2/2

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3. The third of these is the

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... of 120 - 140 a hour ... The plate voltage 1900 v - d. 1 amp. is fed from a special

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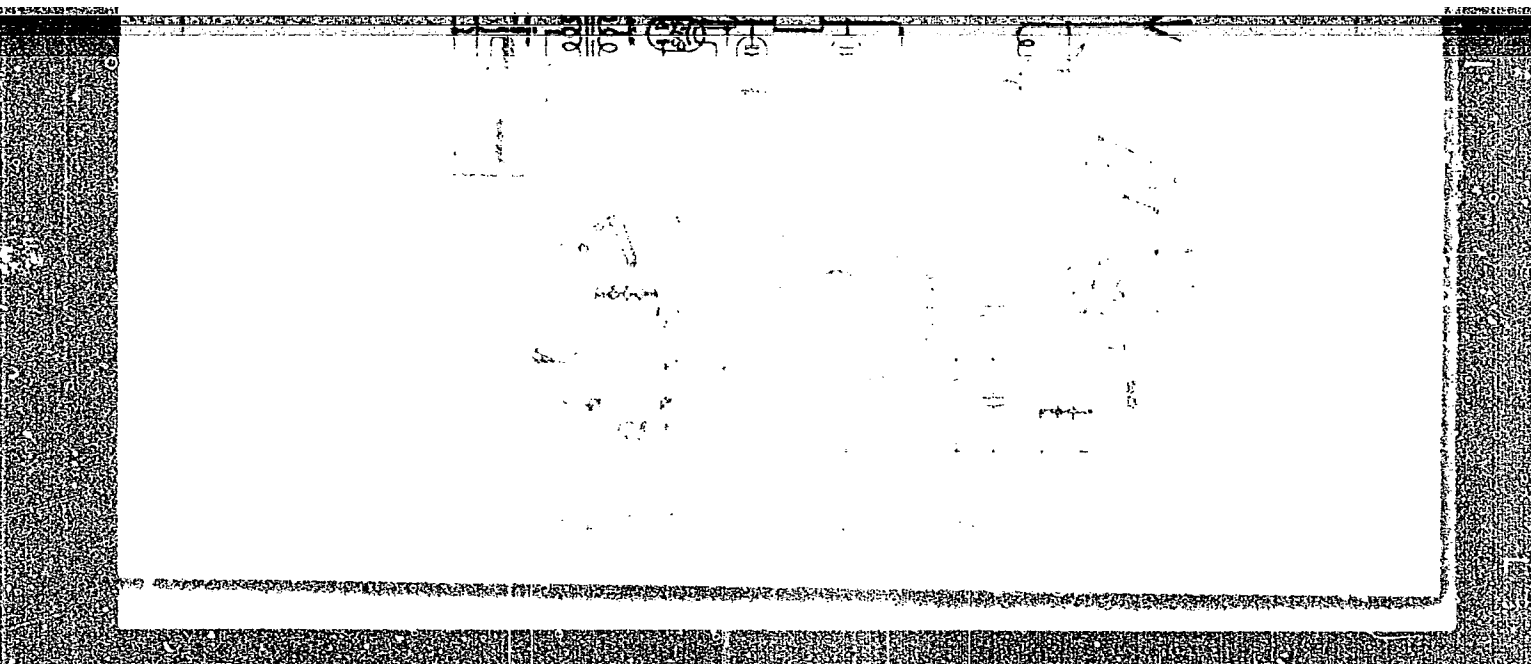
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APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000103310010-2"

BALIN, A.F., inzhener.

Economizing metals by the introduction of periodically-rolled iron.
(In: Ryshkov, D.A., ed. *Ekonomiia metallov v kuznechno-shtampovom
proizvodstve*. Moskva, 1953, p.158-161.) (MLRA 7:1)
(Forging) (Punching machinery)

BALIN, A.F.; VALITOV, R.Kh.; KORACHISTOV, A.N.

Experience in coarse thread rolling. Kus.-shtam.proizv. 4
no.12:9-11 D '62. (MIRA 16:1)
(Rolling (Metalwork)) (Screw threads)

25(1)

PHASE I BOOK EXPLOITATION

SOV/2811

Balin, Andrey Fedorovich

Poperechno-vintovaya prokatka kuznechnykh zagotovok (Helical Cross Rolling of Forged Blanks) Moscow, Mashgiz, 1959. 74 p. 2,500 copies printed.

Ed.: G. M. Makovskiy, Engineer; Ed. of Publishing House: L. A. Osipova; Tech. Ed.: G. V. Smirnova; Managing Ed. for Literature on Heavy Machine Building (Mashgiz): S. Ya. Golovin, Engineer.

PURPOSE: This book is intended for technical personnel in forging and rolling shops and for engineers interested in the use of shaped blanks in forging. General readers interested in developments in this field may find the booklet useful.

COVERAGE: The author presents the results of experiments in helical cross rolling of periodic profile stock and its use in forging. Following the description of helical cross rolling an explanation is given of the design features of mills and roll design for special periodic profiles. It is stated that Soviet engineers are

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Helical Cross Rolling (Cont.)

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attempting to produce preshaped blanks by this method in order to facilitate and streamline the forging of parts with complex configuration and in some cases to reduce machining operations. No personalities are mentioned. There are 5 references, all Soviet.

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Helical Cross Rolling (Cont.)

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S/182/62/000/006/003/004
D040/D113

AUTHOR: Balin, A.F.

TITLE: Rolling by wedges

PERIODICAL: Kuznechno-shtampovoye proizvodstvo, no. 6, 1962, 12-16

TEXT: General data is given on a rolling method first used in 1947 for preparing forging blanks of automobile engine connecting rods and now employed by Soviet plants for producing balls, rings, bushings, scraper conveyer shafts, etc. The method is called "cross or helical cross rolling", and consists in passing stock through a pair of rolls with wedge-shaped protrusions placed in a straight or in a helical line (Fig. 1 and 4). The output of a rolling mill with 500 mm diam. rolls, working with 3 electric heaters, is 3,000 billets per shift and may be higher when using more productive heating equipment. One latest mill design uses a roll and a concave segment instead of a pair of rolls. Experiments were conducted with two 400 mm diam. rolls mounted in a specially designed attachment to a hydraulic press. In this case, called open rolling, the wedges and spacing inserts between them are attached to the rolls by screws

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Rolling by wedges

S/182/62/000/006/003/004
D040/D113

and may be exchanged and used in various combinations for different work. The force equations in open and closed rolling are included. Wedge rolling of forging blanks is economical because of (a) the very low waste of metal that has to be cut off from blanks rolled in strings, and (b) the very high wear resistance of wedge rolls in comparison to dies, high productivity of rolling, and automation of the rolling process. It has quickly replaced other methods of producing large balls in the ball bearing and cement industries. There are 7 figures. ✓

Card 2/8 2

BALIN, A.F.; VALITOV, R.Kh.

Automatic forging rolls. Kuz.shtam. proizv. 3 no.1:18-23 Ja '61.
(MIRA 14:1)

(Forging machinery)

(Rolling mills)

L 1899-66 EWT(m)/EPP(c)/EWP(j)/T RM

ACCESSION NR: AP5021550

UR/0286/65/000/013/0016/0016

547.584.07

AUTHOR: Veretenova, T. N.; Balin, A. I.

TITLE: Preparative method for alkyl or aryl vinyl terephthalates. Class 12,
No. 172305

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 16

TOPIC TAGS: monomer, alkyl vinyl terephthalate, aryl vinyl terephthalate

ABSTRACT: An Author Certificate has been issued for a preparative method for alkyl or aryl vinyl terephthalates involving the reaction of terephthaloyl chloride alkyl or aryl half ester with vinylating compounds. To widen the range of monomers suitable for preparing polymers having different physicochemical properties, the vinylating compound used is chloromercuroacetaldehyde or mercuribisacetaldehyde (sic).

ASSOCIATION: none

SUBMITTED: 01Dec61

NO REF SOV: 000

Cards 1/1

ENCL: 00

OTHER: 000

SUB CODE: MT, GC

ATD PRESS: 4088

~~BALIN, A.I.~~; RODIONOV, R.A.

Analysis of esters of terephthalic acid. Plast.massy no.2:24-26
'61. (MIRA 14:2)
(Terephthalic)

RODIONOV, R.A.; BALIN, A.I.; KOROSTYLEV, B.N.

Synthesis of polyethylene terephthalate. Khim.volok. no.6:11-12
'61. (MIRA 14:12)

1. Filial Vsesoyuznogo nauchno-issledovatel'skogo kinofotoinstituta,
g. Shostka.

(Terephthalic acid)

S/081/62/000/019/035/053
B101/B180

AUTHORS: Veretenova, T. N., Dulin, A. I.

TITLE: Synthesis and polycondensation of new esters of terephthalic acid

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 19, 1962, 512, abstract 19P69 (Tr. Vses. n.-i. kinofotoin-ta, no. 43, 1961, 80 - 86)

TEXT: Terephthalic esters of the general formulas $XCH_2CH_2COOCC_6H_4COOCH_2CH_2X'$ (where $X = Cl, Br, I, CNS, CH, ONO_2, OCH_3, OC_2H_5$, and $X' = Cl, Br, I, F, CNS, CH, ONO_2, OCH_3, OC_2H_5$) and $H_3COOCC_6H_4COOCH_2CH_2X$ (where $X = Cl, Br, I, F$) were synthesized to study the possibilities of the polycondensation of various β, β' -disubstituted diethyl terephthalates. The polycondensation of the terephthalic esters was conducted in the presence of $ZnCl_2, Zn(CH_3COO)_2, Sb_2O_3$, and Li_2CO_3 . Polymers of methyl- β -chloroethyl terephthalate, of β, β' -dichloro-diethyl terephthalate, and of β, β' -dibromo-diethyl terephthalate were obtained. The esters synthesized, the

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Synthesis and polycondensation of new ... 5/081/62/000/019/035/053
B101/B180

catalysts used, and the characteristics of the resulting polymers are listed. [Abstracter's note: Complete translation.]

Card 2/2

VERETENOVA, T.N.; BALIN, A.I.

New method of preparing mercury-bis-acetaldehyde. Zhur.ob.khim.
33 no.6:2079 Je '63. (MIRA 16:7)
(Acetaldehyde) (Mercury compounds)

TULAYEV, A.; BALIN, B.

A useful manual ("Standard designs of pavements." Reviewed by
A.Tulaev, B.Balin). Avt.dor, 23 no.1:25 Ja '60.
(MIRA 13:5)

(Pavements)

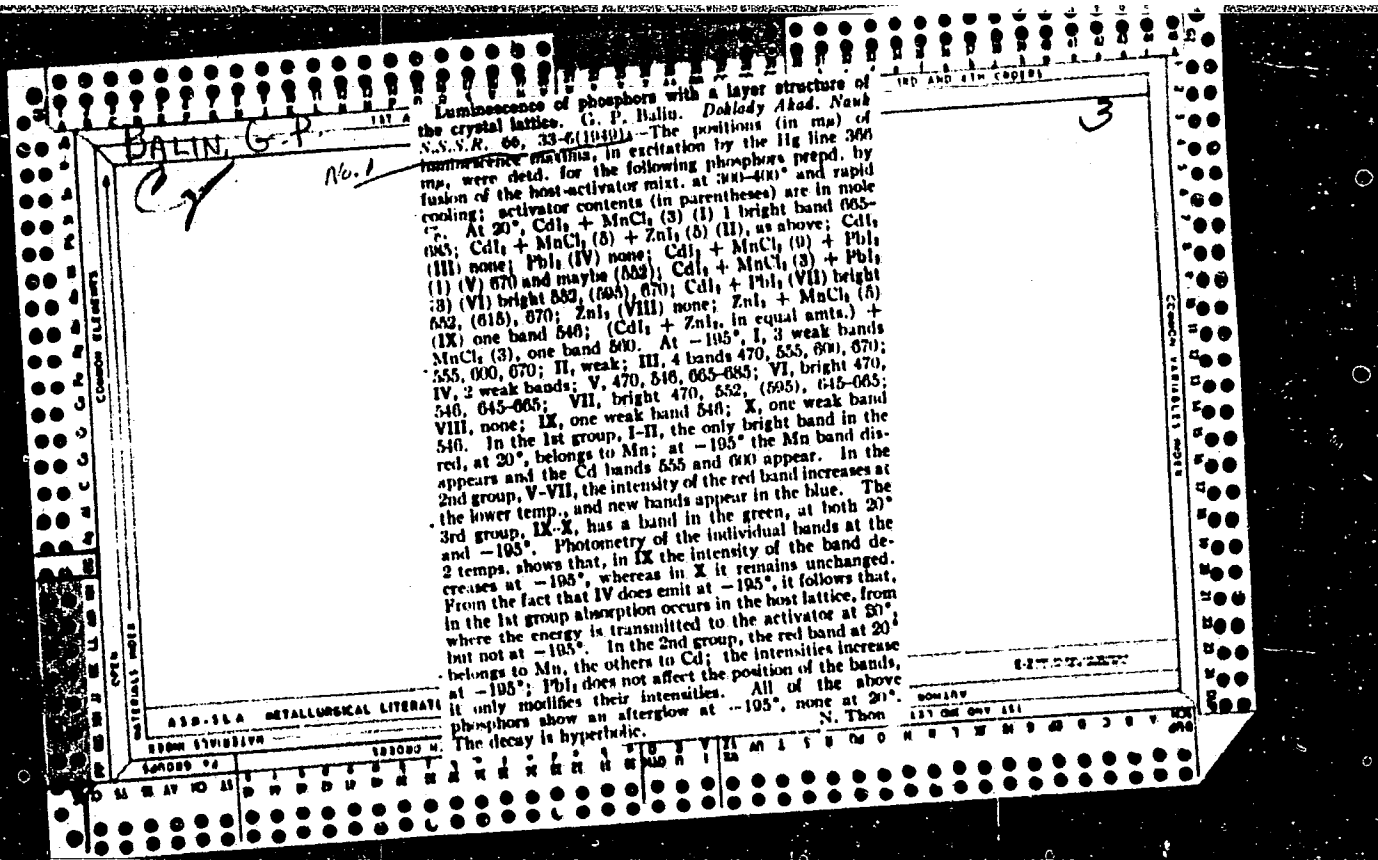
BALINA, G.I.

Standard programs for solving systems of linear algebraic equations
using the "Ural-1" electronic computer. Vych. tekhn. i vop. prog.
no.1:92-103 '62. (MIRA 16:6)

(Electronic computers)
(Programming (Electronic computers))

1ST AND 2ND GROUPS										3RD AND 4TH GROUPS									
COMMON ELEMENTS										METALS INDEX									
BALIN, G. P.										PROCESSING AND PROPERTIES INDEX									
The refractive index of thallium vapor near the line $\lambda = 8350 \text{ \AA}$. (G. Balin and S. Mandelstam, Jr. <i>Physik. Z. Sowjetunion</i> 6, 122-23 (1934).—From an expt. showing that the intensity near $\lambda = 8350 \text{ \AA}$. of the light scattered from Tl vapor (850-900°) is less than 1/100 of that from C_2H_2 it is concluded that $n - 1$ (n = refractive index) for Tl vapor at $\lambda = 8461$ is at least 300-450 times smaller than the value reported by McClellan. The results are compatible with the much lower value of $n - 1$ found by Fermi and Rasetti,										Morris Muskat									
ASB-31A METALLURGICAL LITERATURE										CLASSIFICATION									
60100 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00										01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00									

2021. Broadening of the Hg Resonance Line 2536.7 Å with Increasing Density of Hg Vapour. G. P. Balin. *Phys. Zets. d. SSSR*, 1950, 12, 6, pp. 701-722, 1957. In German.—The breadth of the Hg line 2536.7 Å is investigated by the absorption method at a pressure of 7-3 mm. As far as possible all factors are taken into consideration which might influence the form and breadth of the emission line including the quantitative influence of the diffusely reflected light and the additional broadening due to the finite thickness of the emitting layer. In calculating the absorption the superposition of the hyperfine structure components of the line is considered. The line breadth obtained from the observations is



24(4)

AUTHOR: Balin, G.P.

SOV/51-6-6-5/34

TITLE: The Effect of Ultraviolet Irradiation and Temperature on Luminescence of $\text{CdI}_2\text{-MnCl}_2$ and $\text{CdI}_2\text{-MnCl}_2\text{-PbI}_2$ Phosphors (Vliyaniye ul'trafiol'tovogo oblucheniya i temperatury na lyuminesstentsiyu fosforov $\text{CdI}_2\text{-MnCl}_2$, $\text{CdI}_2\text{-MnCl}_2\text{-PbI}_2$)

PERIODICAL: Optika i spektroskopiya, 1959, Vol 6, Nr 6, pp 760-763 (USSR)

ABSTRACT: The author found earlier (Ref 1) that $\text{CdI}_2\text{-MnCl}_2$ phosphor becomes darker after irradiation with 365 mμ. This darkening was accompanied by a weakening of luminescence proportional to the duration of ultraviolet irradiation. The present paper describes studies of the effects of ultraviolet irradiation and of temperature (acting separately and together) on the 675 mμ red luminescent band of CdI_2 phosphors activated with MnCl_2 and $\text{MnCl}_2\text{-PbI}_2$. After one hour of ultraviolet irradiation at 20°C the red emission fell considerably (Fig 1 curve 1) but it was partly re-established after 44 hours in darkness. Further irradiation (after these 44 hours) produced a similar effect, as shown by curve 2 in Fig 1. This decrease of the red emission intensity was always hyperbolic (Fig 2). The author studied the effect of ultraviolet irradiation on the following phosphors: $\text{CdI}_2\text{+1\%MnCl}_2$, $\text{CdI}_2\text{+10\%MnCl}_2$, $\text{CdI}_2\text{+20\%MnCl}_2$,

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The Effect of Ultraviolet Irradiation and Temperature on Luminescence of $\text{CdI}_2\text{-MnCl}_2$
and $\text{CdI}_2\text{-MnCl}_2\text{-PbI}_2$ Phosphors

$\text{CdI}_2+50\%\text{MnCl}_2$, $\text{CdI}_2+3\%\text{MnCl}_2+3\%\text{PbI}_2$, $\text{CdI}_2+3\%\text{PbI}_2$. For five of them the results are shown in Fig 3. It was found that with increase of the MnCl_2 content from 1 to 10% (curves 1-3, Fig 3) the effect of ultraviolet radiation became smaller. To explain this effect the author assumes that the red emission of $\text{CdI}_2\text{-MnCl}_2$ is due to Mn and ultraviolet radiation destroys manganese emission centres. The fact that phosphors with larger amounts of MnCl_2 are less affected by ultraviolet radiation may be related to thermal motion and presence of a sufficient number of manganese ions which rapidly reform luminescent centres continuously destroyed by ultraviolet radiation. This was confirmed by studies of the temperature dependence of luminescence quenching by ultraviolet radiation (Fig 4). This figure shows that on increase of temperature the effect of ultraviolet radiation becomes smaller and practically disappears at 100°C . At this temperature practically no darkening of the phosphor can be produced by ultraviolet radiation. At still higher temperatures ($150\text{-}250^\circ\text{C}$) the effect

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SOV/51-6-6-6/34

The Effect of Ultraviolet Irradiation and Temperature on Luminescence of $\text{CdI}_2\text{-MnCl}_2$ and $\text{CdI}_2\text{-MnCl}_2\text{-PbI}_2$ Phosphors

of ultraviolet radiation reappears together with temperature quenching (see below). The author studied also the temperature dependence of the intensity of luminescence $\text{CdI}_2\text{-MnCl}_2$ phosphors. At low temperatures the red emission disappears completely but it increases with rise of temperature up to about 60°C and then falls again rapidly (at 300°C the red emission intensity is eleven times smaller than at 60°C). Such temperature dependence of emission was found in CdI_2 phosphors with 3, 10 and 50% of MnCl_2 (curve 1, 2 and 3 in Fig 5). In all these phosphors an almost linear fall of intensity with temperature is observed between 60 and $100\text{-}150^\circ\text{C}$. At higher temperatures this fall follows a more complex curve (Fig 5). The exponential rate of fall with temperature is observed only at temperatures between 100 and 250°C . There are 5 figures and 2 Soviet references.

SUBMITTED: July 15, 1958

Card 3/3

S/081/61/000/023/001/061
B108/B147

AUTHOR: Balin, G. P.

TITLE: Some problems in the luminescence of substances with schistose crystal lattice

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 23, 1961, 31, abstract 23B208 (Uch. zap. Mordovsk. un-t, no. 8, 1960, 158 - 178)

TEXT: The phosphors $\text{CdI}_2(\text{MnCl}_2)$, $\text{CdI}_2(\text{MnCl}_2+\text{PbI}_2)$, $\text{ZnI}_2(\text{MnCl}_2)$, $[\text{ZnI}_2+\text{CdI}_2](\text{MnCl}_2)$, and $\text{CdI}_2(\text{MnCl}_2+\text{ZnI}_2)$ are examined. Emission spectrum, afterglow of the phosphors, and law of quenching are studied. The nature of the luminescence centers of these phosphors is discussed. [Abstracter's note: Complete translation.] ✓

Card 1/1

BALIN, I.K., pomoshchnik sanitarnogo vracha

Organization of an extensive active sanitary group for the
assumption of some control functions. Fel'd. i akush. 28
no.11:40-42 N'63 (MIRA 16:12)

1. Iz Krasnogorskoy sanitarno-epidemiologicheskoy startsi, Kamensk-Ural'skiy, Sverdlovskaya oblast'.

DALIN, L.V.

6(7);9(3) P.S.

PHASE I BOOK EXPLOITATION

SOV/2666

USSR. Ministerstvo svyazi. Tekhnicheskoye upravleniye

Elektronnaya fototelegrafiya; informatsionnyy sbornik (Electronic Facsimile Systems; Information Handbook) Moscow, Svyaz'izdat, 1958. 132 p.
(Series: Tekhnika svyazi) 9,000 copies printed.

Resp. Ed.: B. Z. Kisel'gov; Ed.: L. S. Salitan; Tech. Ed.: K. G. Markoch.

PURPOSE: This collection of articles is intended for specialists in facsimile systems.

COVERAGE: This collection summarizes information on Soviet and non-Soviet developments in electronic facsimile systems and equipment. Results of investigations in this field at the laboratory of the NIITS (Scientific Research Institute of City and Rural Telephone Service) are presented. These investigations were connected with a project for the adaptation of regular telephone channels, wideband channels and direct communication links for facsimile transmission in place of the previously used special facsimile transmission channels.

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Electronic Facsimile Systems (Cont.)

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The necessity of replacing drum scanning by planar and of introducing several improvements in the transmitting and receiving equipment led to intensified research in this field. Thus emerged the idea of using cathode-ray tubes in those systems similar to the ones used in television. References follow each article.

TABLE OF CONTENTS:

Foreword

3

Yurchenko, V. P. Problems in Electronic Facsimile Systems

6

The author describes the principles in the design of analyzing and synthesizing devices and enumerates the requirements of cathode-ray tubes and special features of their performance for facsimile systems. The problems of designing picture elements, the recording system and methods of securing stability of operation are also described. The author reveals some deficiencies of separate technical solutions, studies methods for improving them and discusses some theoretical problems in the development of a facsimile system. He also presents a brief history of the problem with some details on

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Electronic Facsimile Systems (Cont.)

SOV/2666

Soviet accomplishments since 1950. The following mentioned institutions have made contributions in research on electronic scanning: The Leningrad Electrical Engineering Institute of Communications under the direction of P.V. Shmakov, the Leningrad branch of NIITS, the Odessa Electrical Engineering Institute and the Scientific Research Institute of the Ministry of Communications. There are 27 references: 17 Soviet, 7 English and 3 German.

Yurchenko, V. P. The Resolving Power of a Facsimile System With Electronic Scanning.

47

The author presents details of investigations on the resolving power of cathode-ray tubes taking into consideration a required increase in brightness intensity necessary in documentary reproduction of images. Similar data, according to the editors, have been published for the first time and may be of considerable interest to specialists for facsimile, television

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Electronic Facsimile Systems (Cont.)

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and vacuum tube techniques. The author discusses the evaluation of the resolution of a facsimile system which uses experimental cathode-ray tubes of the 18LK9Zh, 18LK9A and other types, and he defines the requirements for the size of the spot on the tube screen. A schematic diagram of the experimental layout is presented and the methods and results of measurements are given. There are 6 Soviet References.

Karpeshko, Yu.Ye. Half-tone Distortions in Facsimile Systems With Electronic Scanning

67

The author examines the half-tone characteristic of the facsimile system. This characteristic is determined by the characteristic of the the analysis and synthesis of half-tones and by the amplitude characteristic of the electric channel. The study of such characteristics for various kinds of analyzing and synthesizing devices is well described in technical literature. However, according to the author, the characteristic of the synthesis of half-tones in facsimile systems with electronic scanning of the image, where the role of light modulator is accomplished by a cathode-ray tube, has not yet been adequately studied. The author investigates the half-tone characteristic of the system, assuming a linear amplitude characteristic of the communication channel. The author compares favorable

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Electronic Facsimile Systems (Cont.)

SOV/2666

experimental results with analytical investigation and presents results in two tables and 4 diagrams. There are 4 Soviet references.

Svetlov, N. I. Methods of Elimination of Perpendicular Streaks in the Half-tone Image Received With the Electronic Single-Scan Line Method

83

The author discusses methods for the elimination of parasitic perpendicular streaks appearing in the half-tone image of the electronic facsimile system. These streaks are caused by the irregular luminescence of the luminophor along the scanning trace, resulting from nonuniformity of the structure or composition of the luminophor and also from defects in the glass of the tube screen. Since the technology of producing luminophores has not been perfected, the author looks for methods for eliminating the parasitic streaks. Among the electromechanical methods, he describes the "Scanning device" submitted by him in 1954, the method of rotating the cathode-ray tube, submitted in 1954 by P. A. Yunakov and the electronic-mechanical vertical sweep method,

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Electronic Facsimile Systems (Cont.)

SOV/2666

submitted in 1954 by V. P. Yurchenko. A method of cylindrical optics was submitted in 1955 by Ye. A. Nikitin and the author (Author's certificate No. 105386). The author presents an example of calculating the quantity of illumination in utilizing cylindrical optics and auxiliary electronic scanning. He concludes that the use of the optical and electromechanical methods brings several improvements. However, some negative characteristics result from these methods, the elimination of which may be affected by using a special tube with a scanning spot. This tube was submitted for an Author's Certificate by V. P. Yurchenko, N. I. Svetlov, and Ye. A. Nikitin on February 18, 1956. The author claims that this tube is satisfactory in operating conditions and preliminary tests made at the NITIS gave favorable results. In an appendix the author gives the derivation of formulae for the calculation of cylindrical lenses, according to data submitted by V. V. Khvalovskiy. There are 3 Soviet references.

Balin, L. N., L. V. Afanas'yeva. Electrophotographic Method of Obtaining Images

104

The authors describe the newly developed technique of electrophotography, which combines principles of regular photography with the properties of some semiconductor photocells. They note

Card 6/7

Electronic Facsimile Systems (Cont.)

80V/2666

the deficiencies of this new technique and point out necessary improvements. There are 13 references; 6 Soviet and 7 English. No personalities are mentioned.

Yunakov, P. A. Selection of a Scanning Method for an Electronic Facsimile System

118

The author speaks about the difficulties in affecting strict linearity of scanning in facsimile systems, which is more difficult at facsimile scanning frequencies lower than those used in television. Nonlinear distortions result from various sources. The author describes methods used at the laboratory of the NIITS to affect scanning linearity. Best results were obtained with the following types of cathode-ray tubes of Soviet make: 18LK2B, and two experimental types 18LG2h and 18LK9A, all of which have magnetic focusing and deflection. There are 7 references; 6 Soviet and 1 English. No personalities are mentioned.

AVAILABLE: Library of Congress

Card 7/7

JP/fal
12-19-59

AUTHOR: Balin, L.N. Senior Engineer SOV-111-58-9-9/30

TITLE: A New Method of Recording Images in Facsimile Telegraphy
(Novyy sposob zapisi izobrazheniy v fototelegrafii)

PERIODICAL: Vestnik svyazi, 1958, Nr 9, pp 11 - 12 (USSR)

ABSTRACT: The author describes the xerography method of recording images in facsimile telegraphy. This method does away with the need for liquid reagents and makes use of the properties of some photo-semi-conductors. At the receiving end, the reconstituted image is focussed on to the photo-semi-conductor film and produces various surface charges, according to the intensity of the light at any given point. If powder is sprinkled over the film's surface it will be attracted to the charged portions and an image will be reproduced. If the powder is given a charge opposite to that of the film this process will be intensified. The constitution of the powder "developer" is given. For finer reproduction finer powder (soot) must be used. Best results were obtained by coating a metal film with selenium, or paper with zinc oxide. There are two variants of the method: 1) recording onto a metal drum coated

Card 1/2

SOV-111-58-9-9/30

A New Method of Recording Images in Facsimile Telegraphy

with selenium and subsequent transfer of the image onto paper, 2) direct recording on special electro-photographic paper. Details of both methods are given. There are 3 schematic diagrams.

ASSOCIATION: NIITS

1. Facsimile communications systems--Equipment 2. Facsimile communications systems--Operation 3. Recording devices--Applications

Card 2/2

BALIN L. N.
P. 2.

807/77-4-2-15/28

23(a) 25 (5)

AUTHOR:

Izmailov, I. S.

TITLE:

Successes of Soviet Electrophotography (Uspehi sovetskoy elektrofotografii) A Scientific and Technical Conference on Questions of Electrophotography (Nauchno-tekhnicheskaya konferentsiya po voprosam elektrofotografii)

PERIODICAL:

Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1959, Vol. 4, Nr 2, pp 149-152 (USSR)

ABSTRACT:

This is an account of a scientific and technical conference on electrophotography, the first to be held in the Soviet Union and evidently in the world. It was organized in Vil'nyus on December 16-19, 1958 by the Soviet National Economy of the Lithuanian SSR (Council for National Economy of the Lithuanian SSR), its minister, V. V. Nauchno-tekhnicheskii komitet, Technical Committee of the Council of Ministers of the Lithuanian SSR and the Kauno-Islekovatskiy institut elektrofotografii (Scientific Research Institute of Electrophotography). The conference, attended by over 300 scientific workers, was opened by the Deputy Chairman of the Council for National Economy of the Lithuanian SSR P. A. Kul'vets, after which I. I. Zhil'nerich, reviewed the state and prospects for development of electrophotography in the USSR. He stated that research in this field should be carried out along the following lines: a) a search for new photo-active materials with high dark resistance; b) physical research into the internal photoeffect; c) development of photoconductor photoregraphic process. K. S. Izmailov (speaking for O. G. Popova) gave a report in which he suggested determining the light sensitivity of electrophotographic layers in GOST units. N. Z. Plavina (speaking for I. I. Zhil'nerich, L. I. Kuznetsov, L. I. Kuznetsov, L. I. Kuznetsov and O. N. Suvayda) reported on research on the sensitization of electrophotographic layers. V. V. Nauchno-tekhnicheskii komitet, Technical Committee of the Council of Ministers of the Lithuanian SSR reviewed the formation process of the latent electrophotographic image on the basis of the ionic theory. He also described the design of an electrotonometer for determining sensitivity by the relaxation period of a charge on the surface of the layer, and the results of an electrophotographic copying device. The finished describing the latter and the state of the mechanics and kinematics of the development of the latent electrophotographic image in liquid developers.

Card 3/10

807774-2-15/18

Successes of Soviet Electrophotography: A Scientific and Technical Conference on Questions of Electrophotography

I. M. Vinogradov described some of the features of the solid and liquid methods of electrophotographic development. He reported on the development of the criterion of light sensitivity of the electrophotographic process. After the reports, a discussion took place on methods of determining the light sensitivity of electrophotographic layers. A. M. Chernyshev spoke on the prospects of developing polygraphic processes using electric and magnetic forces. O. V. Gromov (speaking also for I. I. Zhilevich, A. A. Sukhly, V. A. Gordiyeva, A. J. Pashka and Yu. I. Kereyev) reported on the development of electrophotographic reproducing equipment. A. S. Pashka (speaking also for I. I. Zhilevich, A. S. Bortsovich, N. M. Gol'yadko and M. A. Rukhovich) reported on the use of electrophotographic methods in recording oscillographs and other recording instruments.

V. P. Luchenko (speaking also for A. A. Sukhly) spoke on the possibility of electrophotographically recording images from electron-beam tubes. I. S. Korolov (speaking also for I. I. Zhilevich, A. A. Sukhly, A. J. Pashka and M. A. Rukhovich) gave a detailed description of laboratory and machine methods of producing photosensitive materials (zinc oxide was used). A. A. Sukhly (speaking also for I. I. Zhilevich, O. V. Gromov, V. A. Gordiyeva, M. V. Fedotov and T. M. Ger) described a laboratory and industrial machine for producing photosensitive materials. T. A. Shishkina (speaking also for Ya. A. Chumakov) reported on a method of examining electrophotographic materials using an A/C bridge. S. I. Khotimovich (speaking also for A. I. Gikins and S. S. Kereyev) spoke on developing materials for electrophotography and ferrography, including developers giving a "reverse" image. S. I. Khotimovich reviewed methods of examining the electrostatic potential of electrophotographic materials. He stated that the electrostatic potential should not be placed above a layer with varying potential as this causes self-discharge. S. V. Kravtsov (speaking also for R. G. Goryunov, A. V. Gaidov and Ye. S. Kereyev) spoke on the practice of producing valveten papers in an electrostatic field, and showed samples produced by the Gritshanskaya paper factory. Ye. L. Kravtsov then gave a historical review of the development of electrophotographic methods in which he paid tribute to the work of the Scientific Research Institute of Electrophotography in Vil'nyus and the Institut Poligraficheskogo mashinostroyeniya (Leningrad)-(polygraphic machine-building institute (Leningrad)). Lectures were then held

Card 6/10

KONOVALOV, I., doktor tekhn.nauk; PARFENOV, A.; BALANIN, V., kand.tekhn.-
nauk; SHCHERBAKOVA, R., kand.tekhn.nauk; BAKHTIN, A.; BALIN, N.

Measures for preventing ice jams on the lesser and greater Northern
Dvina. Rech. transp. 21 no.2:44-46 F '62. (MIRA 15:3)

1. Predsedatel' Kotlasskogo ispolnitel'nogo komiteta deputatov
trudyashchikhsya (for Parfenov). 2. Nachal'nik Kotlasskogo
tekhnicheskogo uchastka Severnogo basseynovogo upravleniya puti
(for Bakhtin). 3. Glavnyy inspektor Kotlasskogo tekhnicheskogo
uchastka (for Balin).

(Northern Dvina River--Ice on rivers, lakes, etc.)

KIRILLOV, I. Ye., inzh.; BALIN, M. M., inzh.

New regulations for the operation of heating boiler units.
Bezop. truda v prom. 6 no.9:13-14 S '62.

(MIRA 16:4)

1. Upravleniye Severo-Zapadnogo okruga Gosudarstvennogo komiteta
pri Sovete Ministrov RSFSR po nadsoru za bezopasnym vedeniyem
rabot v promyshlennosti i gornomu nadzoru.

(Steam heating)

ACCESSION NR: AT4008632

S/3040/63/000/002/0105/0115

AUTHORS: Baluyev, A. N.; Bratchikov, I. L.; Balina, G. I.; Igolkin, V. N.; Kovrigin, A. B.; Marty*nenko, B. K.; Poroshin, B. S.; Surin, S. S.

TITLE: Compiling routine for an electronic digital computer using input language ALGOL

SOURCE: Leningrad. Universitet. Kafedra vy*chislitel'noy matematiki i vy*chislitel'ny*y tsentr. Vy*chislitel'naya tekhnika i voprosy* , programirovaniya, no. 2, 1963, 105-115

TOPIC TAGS: digital computer, digital computer compiler, ALGOL computer language, computer language, complex algorithm, computer programming, machine language, binary code computer, computer input language, ALGOL

ABSTRACT: The input language and the algorithm of the programming

Card 1/2

ACCESSION NR: AT4008632

program developed in the Computation Center of Leningradskiy Universitet (Leningrad University), which is an abbreviated and modified variant of ALGOL-60, is described. The language differs from ALGOL in that the program as a whole constitutes one block and there are no descriptions of types; a separate class of identifiers is used for each class. The operators (particularly the procedure operators) and the description of the procedures are simplified and standardized. The input language itself and the operating principles of the programming program are described in detail and the algorithm for solving a system of linear algebraic equations of 50th order by the Gauss method, with choice of the principal element, is used as an example. Orig. art. has: 28 formulas.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED: 15May62

DATE ACQ: 23Jan64

ENCL: 00

SUB CODE: CP

NO REF SOV: 002

OTHER: 000

Card 2/2

BARSKAYA, Ye.I.; BALINA, N.V.

Agglutination of chloroplasts in the leaves of Elodea.
Fiziol. rast. 12 no.3:542-:45 My-Je '65. (MIRA 18:10)

1. Institut fiziologii rasteniy imeni K.A. Timiryazeva AN SSSR,
Moskva.

USSR/Physical Chemistry - Electrochemistry.

B-12

Abs Jour: Referat. Zhurnal Khimiya, No 3, 1958, 7315.

Author : T.N. Balina, A.I. Krasil'shchikov.

Inst : State Scientific Research and Planning Institute of Nitrogen
Institute.

Title : Kinetics of Electrode Processes under Pressure.

Orig Pub: Tr. Gos. n.-i. i proyekt. in-ta azotn. prom-sti, 1954,
vyp. 3, 175-192.

Abstract: See RZhKhim, 1955, 31327, 31334.

Card : 1/1

-14-

VOLOSHIN, N.Ye., inzh.; RESHETNYAK, Yu.V., inzh.; BERKOVICH, I.M., inzh.;
DERBASOV, T.M., inzh.; BALINCHENKO, I.I., inzh.

Sudden outbursts of sand rocks in the "Shcheglovka-Glubokaya"
mine. Shakht.stroi. 6 no.9:16-19 S '62. (MIRA 15:9)

1. Opornyy punkt Makeyevskogo nauchno-issledovatel'skogo instituta po bezopasnosti rabot v gornoy promyshlennosti, g.Donetsk (for Voloshin).
2. Shakhtostroitel'nyy trest Makeyevskogo rayona, Donbass (for Reshetnyak, Berkovich).
3. Makeyevskiy nauchno-issledovatel'skiy institut po bezopasnosti rabot v gornoy promyshlennosti (for Derbasov).
4. Opornyy punkt Makeyevskogo nauchno-issledovatel'skogo instituta po bezopasnosti rabot v gornoy promyshlennosti tresta Oktyabr'ugol' (for Balinchenko).

(Donets Basin--Rock pressure)
(Mining engineering)

ZHEBIN, A.I.; BALINCHENKO, I.I.; KARAGODIN, L.N., kand.tekhn.nauk;
SIMONOV, A.A., inzh.

Article "Safety measures in baring coal intercalation." Bezop.
truda v prom. 6 no.2:21-23 F '62. (MIRA 15:2)

1. Pomoshchnik glavnogo inzh. shakhty "Kommunist-Novaya" tresta
Oktyabr'ugol' (for Zhebin). 2. Nachal'nik opornogo punkta Ma-
keyevskogo nauchno-issledovatel'skogo instituta po bezopasnosti
rabot v gornoy promyshlennosti pri shakhte "Kommunist-Novaya"
tresta Oktyabr'ugol' (for Balinchenko). 3. Makeyevskiy nauchno-
issledovatel'skiy institut po bezopasnosti rabot v gornoy pro-
myshlennosti (for Karagodin, Simonov).
(Coal mines and mining—Safety measures)
(Shchukin, V.R.)

BALINGER, Antal
CA

Alloy for making artificial teeth. Antal Balinger.
Hung. 128,333, Nov. 15, 1941. An alloy contg. Al 60-
90, Mg 6-40, Mn 0.1-10.0, and Si 0.1-1.0% is specified.
István Finkly.

9

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

4613. BEHAVIOUR OF MINE ROOF DURING OPERATION OF COAL PLANES.
Balinov, I.N. (Ugol (Coal), 1949, (9), 25-27). (L).

BALINOV, A.V., insh.

The K-2,5-10 truck-mounted crane is being prepared for re-
lease. Stroiki dor.mashinostr. 4 no.12:16-17 D '59.

(Cranes, derricks, etc.)

(MIRA 13:3)

IVANISHVILI, N.N.; BALINOV, I.M.

KU-2 shuttle-type mining machine unit. Ugol' Ukr. 4 no.10:34-35 0
'60. (MIRA 13:10)

1. Nachal'nik shakhty "Talovskaya" No.1 tresta Krasnodonugol' (for
Ivanishvili). 2. Glavnyy konstruktor shakhty "Talovskaya" No.1
tresta Krasnodonugol' (for Balinov).
(Coal mining machinery)

BAKINOV, M. I.

58/49794

USSR/Mining

Coal

Mining Machinery

Jun 49

"Data on Experiments in Introducing Coal Scrapers in the Donets Coal Fields," A. L. Murich, Engr, M. I. Balinov, Voroshilovgrad Constr Office of "Gidrougle-mash." 6 pp.

"Ugol." No 6 (279)

Discusses two variations of factory-made coal-scraper units US-2 (welded) and US-3 (cast) developed in 1946 by Voroshilovgrad Constr Office of "Gidrougle-mash." They were later manufactured by Voroshilovgrad

58/49794

USSR/Mining (Contd)

Jun 49

Factory Iment Parkhomenko and tested in 1947 at shaft No 5 of Voroshilovgol' Trust and at shaft No 7 of Bryanskugol' Trust. Gives complete description of mechanical parts of coal scraper and their test results and advantages. Ten illustrations and four tables

58/49794

LOPATIN, P.V.; SIDORKOV, A.M.; BALINOV, V.V., provisor.

The work of pharmacists should be more efficiently utilized in drug-stores. Apt.delo 3 no.2:47-48 Mr-Ap '54. (MLRA 7:4)

1. Studenty V kursa Moskovskogo farmatsevticheskogo instituta.
(Drugstores)

BALINSCHI, Irina; MIHALACHE, G.

Studies on the microbiological fight against *Lymantria dispar*
L. caterpillars with *Bacillus thuringiensis* Berliner. Studii
cerc. biol. s. zool. 16 no.5:457-466 '64.

1. Section of Microbiology, Institute of Research on Cereals
and Industrial Plants, Fundulea, Bucharest District, and the
Section of Forest Protection, Forest Research Institute, Bucharest.

BALINSKA, H.; LEWINSKA, K.; ROMANIUK, A.; WYRWICKA, W.

The effect of lesions of the medial hypothalamus on internal inhibition in the alimentary conditioned reflexes type II. Acta biol exper 21:188-197 '61.

1. Physiological Laboratory, University, Lodz and Department of Neurophysiology, Nencki Institute of Experimental Biology, Warsaw.

(HYPOTHALAMUS)

BALINSKA, H.; LEWINSKA, K.; ROMANIUK, A.; WYTWICKA, W.

The effect of lesions of the medial hypothalamus on internal inhibition in the alimentary conditioned reflexes type II. Acta Biol Exp 21:189-197 '61.

1. Physiological Laboratory, University of Lodz, Poland, and
Department of Neurophysiology, Nencki Institute of Experimental
Biology, Warsaw.

(HYPOTHALAMUS physiol) (REFLEX CONDITIONED)

BALINSKA, Halina

On changes in conditioned food reflexes of the 2d type and food selectivity after injury of the central hypothalamus in rabbits. Acta physiol pol 12 no.4:495-503 '61.

1. Z Zakładu Fizjologii Zwierząt Uniwersytetu Łódzkiego w Łodzi
Kierownik: doc. dr W. Wyrwicka.
(REFLEX CONDITIONED) (HYPOTHALAMUS physiol)

BALINSKA, H.

Food preference and conditioned reflex type II activity in dynamic hyperphagic rabbits. Acta biol. exp. 23 no.1:33-44 '63.

1. Laboratory of Animal Physiology, University of Lodz, Poland.
(REFLEX, CONDITIONED) (FOOD)
(HYPOTHALAMUS) (PHYSIOLOGY)

BALINSKA, Halina

Food intake and type II conditioning in lateral hypothalamic rabbits survived under forced hydration. Acta biol. exp. 23 no.2:115-124 '63.

1. Laboratory of Animal Physiology, University of Lodz, Lodz, Poland.

(HYPOTHALAMUS) (WATER) (REFLEX, CONDITIONED)
(NUTRITION) (PHYSIOLOGY) (HUNGER)

BALINSKA, Halina; ROMANIUK, A.; WYRWICKA, W.

Impairment of conditioned defensive reactions following lesions of the lateral hypothalamus in rabbits. Acta biol. exp. (Warsz.) 24 no.2:89-97 '64.

1. Laboratory of Animal Physiology, University of Lodz, Lodz, Poland.

MAJLICKA, Helena; BRUTKOWSKI, Stefan

Extinction of food-reinforced responses after medial or lateral hypothalamic lesions. Acta biol. exp. (Warsaw) 24 no.4:213-217 '64.

1. Laboratory of Animal Physiology, University of Lodz, Lodz, Poland.

BALINSKA, Halina

The effect of intravenous injection of glucose on food intake and conditioned reflex activity in rabbits with lesions of the hypothalamic "Feeding centers". Acta biol. exp. (Warsz) 25 no.2:121-131 '65

1. Laboratory of Animal Physiology, University of Lodz, Lodz, Poland.

BALINSKA-BERNAT, H.

Effect of injuries of the central regions of the hypothalamus on food conditioned reflexes of the 2d type and on food selectivity in rabbits. Acta physiol. polon. 11 no.5/6:643-644 '60.

1. Z Zakladu Fizjologii Zwierzat Uniwersytetu Lodzkiego. Kierownik:
doc.dr W.Wyrwicka.

(HYPOTHALAMUS physiol)
(REFLEX CONDITIONED)
(FOOD)

BALINSKA-WUTTKE, Krystyna

Geological section of the quaternary in the region of Rawa Mazowiecka.
Kwartalnik geol 5 no.2:491-496 '61.

1. Wydział Geologii Uniwersytetu Warszawskiego.